

Fire Inspector I



Approved and Adopted by the
Office of State Fire Marshal



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Statewide Training and Education
Advisory Committee and the
State Board of Fire Services

CERTIFICATION TRAINING STANDARDS

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RE MARSHAL CERTIFICATION TRAINING STANDARDS

Introduction

A Certification Training Standards (CTS) Guide is developed for each rank in the fire service -- fire fighter, driver/operator, fire instructor, fire officer, etc. The CTS Guide lists every responsibility a person is expected to complete and a student performance goal that includes a measurable minimum performance standard. In addition, a comprehensive list of reference resources is provided. The CTS Guide has several valuable uses:

1. It is the foundation for the certification programs recommended for adoption by the SBFS. Any certification program must be based upon job-related knowledge and measurable objectives.
2. It provides measurable minimum performance standards. The validity and reliability of fire service entrance and promotional examinations can be more easily defended when such measurable standards are utilized.

These performance standards will need to be augmented by additional training in order to master the knowledge and skills needed for specialized operations.

3. It lists a variety of reference resources that may be studied in order to enhance job performance. A student can be confident that any eventual testing will be based upon the authoritative resources being studied. It is this fostering of individual confidence and initiative, which may become the most important accomplishment of the CTS Guide.

Format

The following is the standardized format for a Certification Training Standards Guide.

Title

The title should be written as concise as possible and provides the first indication that the standard is cognitive, psychomotor, or both. This indication is accomplished by using corresponding verbs. A task title might be, "Describe and Demonstrate the Use of Ropes." This shows that there are both cognitive and psychomotor requirements.

Authority

Each CTS is keyed, when possible, to a subsection of the appropriate National Fire Protection Association (NFPA) Professional Qualifications. Because of this correlation between the CTS Guide and the NFPA standard, it can be said that each fire service position in California's certification system meets or exceeds the corresponding NFPA standard. In order to achieve this and satisfy the desired performance for California fire service personnel, a standard that the NFPA has designated for a particular level (Fire Officer V for example) may be included in



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California's Fire Officer requirements. Moreover, in some instances, because of repetition in the NFPA standard, several subsections might be cited for a single CTS.

In other instances, California may have a requirement that has been overlooked or neglected by the NFPA. When there is no NFPA subsection in the standard to cite, the authority requiring the standard, or a performance within the standard, is listed. In these cases, the authority cited is the State Fire Marshal and the requirements are printed in *italics*.

Level

Two levels of learning are used in a CTS Guide. These levels are defined as:

Level I: Knowledge

The ability to recall or recognition of previously learned material (facts, theories, etc.) in essentially the same form as taught. Students will be able to name, match, list, and identify a concept, principle, or object.

Level II: Comprehension

The ability to use information within a limited context, use abstractions in particular situations, and break information into its parts to clarify relationships. Students will be able to describe and demonstrate the use of an identified concept, principle, or object.

Performance Goal

The heart of the CTS Guide is contained in the performance goals. They attempt to specifically measure what a student knows or is capable of doing at the end of the instructional period by defining the amount of technical knowledge required or the skill of the psychomotor performance. The performance goal provides the instructor or testing agency with these guidelines.

1. What the student should be given to accomplish the CTS.
4. What the student should be able to accomplish.
5. How well the student should perform.
6. The authoritative reference resources being employed.

Given

Technically, the performance goal differs from a student behavioral objective (in a lesson plan) because the "Given" or "Condition" sections are not the same. In a behavioral objective, the "Condition" contains what the student is given at the time of testing. In a performance goal, the "Given" contains a block of information necessary for a student to study and accomplish the corresponding performance.

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1. Describe leadership styles, which at a minimum ***shall*** include:
 - Command presence
 - Concepts
 - Models
 - Theories

Performance

The "Performance" section of the performance goal lists, in detail, what a student must accomplish in order to satisfy the CTS. To cut down on the sheer size of the CTS Guide, the many details included in the "Performance" section precluded the necessity of writing a series of task analyses on closely related subjects. For example, when talking about leadership styles, it became possible to write:

Generally, but not always, each numbered item in the "Performance" is a job. Sometimes, however, many jobs are included in a single numbered item. In this case, each bullet represents a single job.

Standard

The "Standard" section of the performance goal identifies how the student will be evaluated. For cognitive requirements, the standard will be with a minimum 80% accuracy on a written exam. For psychomotor requirements, the standard will be by completing all operations on a performance test. In the cases where the CTS has both psychomotor and cognitive performance goals, the standard will list both the written exam and a performance test.

Learning Resources

A list of available authoritative reference resources supporting the performance goal.



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SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FIRE INSPECTOR I

SECTION 1: ADMINISTRATION

FII 1-1: DESCRIBE THE ROLE OF THE FIRE INSPECTOR I

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. A summary of terms that are commonly used by a Fire Inspector I
2. A summary of the need for conducting a fire inspection
3. A summary of the importance of fire prevention compliance
4. A summary of the legally established responsibilities and empowerment related to the performance of the duties of a Fire Inspector I
5. A summary of the jurisdictional organizations that have requirements or conduct inspections relating to life safety and fire prevention
6. A summary of the jurisdictional organizations that have requirements or conduct inspections relating to the wildland urban interface environment
7. A summary of sources for statute, code, and standard enforcement procedures
8. A summary of local code adoption processes and statutory justifications for amending state code requirements
9. A summary of the ethical aspects and behavior expected of a Fire Inspector I
10. A summary of the basic features of the state and national reporting system
11. A summary of basic public education and public relations efforts

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Define terms commonly used by a Fire Inspector I
2. Describe the need for conducting a fire inspection
3. Describe the importance of fire prevention compliance
4. Describe the legally established responsibilities and empowerment related to the performance of the duties of a Fire Inspector I
5. Describe the jurisdictional organizations that have requirements or conduct inspections relating to life safety and fire prevention
6. Describe the jurisdictional organizations that have requirements or conduct inspections relating to the wildland urban interface environment
7. Describe sources for applicable statutes, codes, and standards, which may include:
 - California Building Standards Code, Title 24



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SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

- *California Code of Regulations, Title 19*
 - *Fire prevention textbooks*
 - *International Code Council model codes*
 - *Local codes and ordinances*
 - *National Fire Protection Association codes and standards*
8. *Recognize that each jurisdiction has a local code adoption process and specific statutory justifications for amending state codes requirements*
9. *Describe the ethical aspects of a Fire Inspector I, which at a minimum **shall** include:*
- *Ethical code enforcement*
 - *Ethical decision-making models*
 - *Ethical systems*
 - *Ethics*
 - *Gifts and gratuities*
 - *Personal core values*
 - *Principle-centered decision making*
 - *Professional decorum*
10. *Describe the basic features of the state and national reporting system*
11. *Describe basic public education and public relations efforts*

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FII 1-2: DESCRIBE AND DEMONSTRATE BASIC INSPECTION MECHANICS

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. *A summary of the inspection preparation process*
2. *A summary of the physical inspection process*

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. *Describe preparation for an inspection*
2. *Describe the physical inspection process*

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FII 1-3: DESCRIBE METHODS OF GAINING CODE COMPLIANCE

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. A summary of methods of gaining prescriptive- and performance-based code compliance

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe methods of gaining prescriptive- and performance-based code compliance, which at a minimum **shall** include:
 - Education
 - Enforcement
 - Engineering
 - Inspection warrants
 - Appeals
 - Alternate means and methods

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

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SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FII 1-4: DESCRIBE WRITING AND MAINTAINING AN INSPECTION REPORT

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTIONS 4.2.1 AND 4.2.5 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION AND POLICIES OF THE JURISDICTION (4.2.1) APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION (4.2.5)
REQUISITE SKILL:	THE ABILITY TO CONDUCT A FIELD INSPECTION, APPLY CODES AND STANDARDS, AND COMMUNICATE ORALLY AND IN WRITING (4.2.1) THE ABILITY TO APPLY CODES AND STANDARDS (4.2.5)

PERFORMANCE GOAL

GIVEN:

1. A summary of the purpose and function of an inspection report
2. A summary of the appropriate content of inspection reports
3. A summary of the need for and benefits of proper documentation, accuracy, and completeness
4. A summary of distribution and retention of an inspection report
5. A summary of local agency policies and procedures, report preparation, and filing procedures
6. A sample inspection scenario
7. Samples of various inspection forms and reports
8. *A summary of confidentiality and privacy requirements*

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the purpose and function of an inspection report, which may include:
 - Communicating formally
 - Documenting
 - Providing due process
2. Describe the appropriate content of most inspection reports, which at a minimum **shall** include:
 - A sketch or diagram when appropriate
 - Only known facts
 - The who, what, when, where, why, and how
 - A detailed and organized narrative
 - Appropriate and descriptive terminology
 - Correct grammar, spelling, and syntax
3. Describe and demonstrate writing an inspection report or letter, which at a minimum **shall** include:

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SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

- Identifying applicable codes and standards
 - Identifying penalties for failure to correct violations
 - Identifying a timeframe for violation compliance
 - Identifying premise, owner, and contact information
 - Identifying violations, code sections cited, and descriptions
4. Describe the need for and benefits of proper documentation, accuracy, and completeness
5. Describe distribution and retention of an inspection report, which at a minimum **shall** include:
- Disseminating the report
 - Filing the report
 - Follow-up procedures
 - Record keeping requirements
6. Describe various inspection reports, which may include:
- Generic inspection forms, checklists, or reports
 - Occupancy-specific forms, checklists, or reports
7. *Describe confidentiality and privacy requirements, which may include:*
- *Obtaining agency policies on which records are considered public records*
 - *A company's right to maintain trade secrets*
 - *A complaining party's right to remain anonymous when reporting violations*
 - *Confidentiality of documents that may result in legal action*

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FII 1-5: DESCRIBE THE PROCEDURES FOR ISSUING A PERMIT

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTIONS 4.2.2, 4.2.5 AND 5.2.1
LEVEL:	II
REQUISITE KNOWLEDGE:	PERMIT POLICIES OF THE JURISDICTION AND THE RATIONALE FOR THE PERMIT (4.2.2) APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION (4.2.5) PERMIT APPLICATION PROCESS AND APPLICABLE CODES, STANDARDS, POLICIES, AND PROCEDURES OF THE JURISDICTION (5.2.1)
REQUISITE SKILL:	THE ABILITY TO COMMUNICATE ORALLY AND IN WRITING (4.2.2) THE ABILITY TO APPLY CODES AND STANDARDS (4.2.5) THE APPLICATION OF THE REQUISITE KNOWLEDGE (5.2.1)

PERFORMANCE GOAL

GIVEN:

1. A summary of the permit policies of the jurisdiction and the rationale for the permit
2. A summary of the procedures or business operations within the jurisdiction that requires licenses and/or permits
3. A summary of the permit process

PERFORMANCE:

1. Describe permit policies of the jurisdiction and the rationale for the permit, which at a minimum **shall** include:
 - Construction permits
 - Operational use permits
2. Describe the permit process, which may include:
 - Application procedures
 - Applicable codes, standards, and policies of the jurisdiction
 - Fees and charges
 - Compliance required
 - Required inspections
 - Issuance
 - Tracking and renewal
 - Retention
 - Revocation

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



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SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FII 1-6: DESCRIBE THE NEED FOR A PLAN REVIEW

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.2.3, AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	OCCUPANCY CLASSIFICATION; APPLICABLE CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE JURISDICTION; OPERATIONAL FEATURES; FIRE HAZARDS PRESENTED BY VARIOUS OCCUPANCIES; AND OCCUPANT LOADS (4.2.3)
REQUISITE SKILL:	THE ABILITY TO CALCULATE OCCUPANT LOADS, IDENTIFY OCCUPANCY FACTORS RELATED TO VARIOUS OCCUPANCY CLASSIFICATIONS, USE MEASURING TOOLS, AND MAKE FIELD SKETCHES (4.2.3)

PERFORMANCE GOAL

GIVEN:

1. A summary of the purpose of a plan review
2. A summary of the issues that initiate the need for a plan review

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the purpose of a plan review
2. Describe the issues that initiate the need for a plan review, which at a minimum **shall** include:
 - Change of use/occupancy classification
 - Construction
 - Modifications to an existing structure
 - Operational use

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

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SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FII 1-7: DESCRIBE THE PROCEDURES FOR INVESTIGATING COMMON COMPLAINTS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.2.4 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION AND POLICIES OF THE JURISDICTION (4.2.4)
REQUISITE SKILL:	THE ABILITY TO APPLY CODES AND STANDARDS, COMMUNICATE ORALLY AND IN WRITING, RECOGNIZE PROBLEMS, AND RESOLVE COMPLAINTS (4.2.4)

PERFORMANCE GOAL

GIVEN:

1. A summary of the procedures for recording complaint information
2. A summary of the procedures to initiate the AHJ-approved process and resolve the complaint
3. *A summary of the influences of political pressure*
4. A summary of methods for complaint resolution

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe procedures for recording complaint information
2. Describe the procedures to initiate the AHJ-approved process and resolve the complaint, which at a minimum **shall** include:
 - Reviewing past records
 - Identifying the applicable codes and standards adopted by the jurisdiction and policies of the jurisdiction
 - Validating a complaint
 - Documenting the resolution
 - Maintaining confidentiality
3. *Describe the influences of political pressure*
4. Describe methods for complaint resolution, which at a minimum **shall** include:
 - Evaluating deficiencies
 - Identifying options for resolution
 - Recognizing the problem
 - Referring to appropriate level or other agencies when necessary

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

FII 1-8: DESCRIBE PARTICIPATING IN LEGAL PROCEEDINGS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.2.6 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	THE LEGAL REQUIREMENTS PERTAINING TO EVIDENCE RULES IN THE LEGAL SYSTEM AND TYPES OF LEGAL PROCEEDINGS (4.2.6)
REQUISITE SKILL:	THE ABILITY TO MAINTAIN A PROFESSIONAL COURTROOM DEMEANOR, COMMUNICATE, LISTEN, AND DIFFERENTIATE FACTS FROM OPINIONS (4.2.6)

PERFORMANCE GOAL

GIVEN:

1. A summary of the basic elements of the legal process
2. A summary of how to prepare legal reports and documentation
3. A summary of the legal requirements pertaining to rules of evidence in the legal system
4. A summary of the types of legal proceedings

PERFORMANCE:

1. Describe the basic elements of the legal process, which may include:
 - Consulting agency legal counsel
 - Differentiating between criminal and civil proceeding
 - Case preparation
 - Case filing (agency initiation) vs. subpoena (external initiation)
 - Depositions
 - Testimony
 - Judgment
 - Subpoenas
 - Influences of political pressure
 - Indirect documents (emails, phone records, etc.)
 - Expert testimony
2. Describe preparing legal reports and documentation, which may include:
 - Maintaining confidentiality
 - Compiling all case-related records
 - Developing timelines documenting enforcement activities
 - Collecting supporting documents
 - Responding to a request for all legal and certified documents as required by agency counsel
3. Describe the legal requirements pertaining to rules of evidence in the legal system and types of legal proceedings, which at a minimum **shall** include:
 - Communicating effectively



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SECTION 1: ADMINISTRATION FOR THE FIRE INSPECTOR I

- Consulting with legal counsel
- Differentiating facts from opinions
- Maintaining a professional courtroom demeanor and appearance
- Listening skills

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 2: PUBLIC EDUCATION FOR THE FIRE INSPECTOR I

SECTION 2: PUBLIC EDUCATION

FII 2-1: DESCRIBE AND DEMONSTRATE PUBLIC EDUCATION FOR FIRE PREVENTION

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. A summary of the purpose and value of public education for fire prevention
2. A summary of how to evaluate community needs based on local concerns
3. A summary of the methods for conducting public presentations
4. A summary of how to evaluate the outcome of a public education message

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the purpose and value of public education for fire prevention
2. Describe how to evaluate community needs based on local concerns, which at a minimum **shall** include:
 - Researching the demographics
 - Identifying geographical features
 - Identifying climate conditions
 - Identifying potential WUI threats
 - Identifying hazards unique to the community
3. Describe methods of conducting public presentations, which at a minimum **shall** include:
 - Creating a solution
 - Choosing a deliver method
 - Implementing the program
4. Describe evaluating the outcome of a public education message

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

SECTION 3: FIELD INSPECTION

FII 3-1: IDENTIFY OCCUPANCY CLASSIFICATIONS AND USES

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTIONS 4.2.5, 4.3.1, AND 5.3.2 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	I
REQUISITE KNOWLEDGE:	APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION (4.2.5) OCCUPANCY CLASSIFICATION TYPES; APPLICABLE CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE JURISDICTION; OPERATIONAL FEATURES; AND FIRE HAZARDS PRESENTED BY VARIOUS OCCUPANCIES (4.3.1) OCCUPANCY CLASSIFICATION, APPLICABLE CODES AND STANDARDS, OPERATIONAL FEATURES, AND FIRE HAZARDS PRESENTED BY VARIOUS OCCUPANCIES (5.3.2)
REQUISITE SKILL:	THE ABILITY TO APPLY CODES AND STANDARDS (4.2.5) THE ABILITY TO MAKE OBSERVATIONS AND CORRECT DECISIONS (4.3.1) THE ABILITY TO INTERPRET CODE REQUIREMENTS AND RECOGNIZE BUILDING USES THAT FALL INTO EACH OCCUPANCY CATEGORY (5.3.2)

PERFORMANCE GOAL

GIVEN:

1. A summary of the procedures for establishing an occupancy classification
2. *A summary of state-regulated occupancy classifications*
3. A summary of occupancy classifications and uses

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify the procedures for establishing an occupancy classification, which at a minimum **shall** include:
 - Concurring with the building official
 - Applicable codes, regulations, and standards adopted by the jurisdiction
 - Fire or life safety hazards presented by various occupancies
 - Occupant load factors
 - Operational features
2. *Identify state-regulated occupancy classifications*
3. Identify occupancy classifications and uses, which at a minimum **shall** include:
 - Mixed-use
 - Single-use

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



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SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-2: DESCRIBE AND DEMONSTRATE COMPUTING THE ALLOWABLE OCCUPANT LOAD

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTIONS 4.3.2
LEVEL:	II
REQUISITE KNOWLEDGE:	OCCUPANCY CLASSIFICATION; APPLICABLE CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE JURISDICTION; OPERATIONAL FEATURES; FIRE HAZARDS PRESENTED BY VARIOUS OCCUPANCIES; AND OCCUPANT LOAD FACTORS (4.3.2)
REQUISITE SKILL:	THE ABILITY TO CALCULATE OCCUPANT LOADS, IDENTIFY OCCUPANCY FACTORS RELATED TO VARIOUS OCCUPANCY CLASSIFICATIONS, USE MEASURING TOOLS, AND MAKE FIELD SKETCHES (4.3.2)

PERFORMANCE GOAL

GIVEN:

1. A summary of the methodology for determining occupant load
2. A summary of how to calculate the allowable occupant load
3. A detailed description of an occupancy

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the methodology for determining occupant load
2. Describe and demonstrate calculating the allowable occupant load, which at a minimum **shall** include:
 - Identifying variables
 - Making field sketches
 - Using measuring tools

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-3: DESCRIBE INSPECTING MEANS OF EGRESS ELEMENTS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTIONS 4.3.3
LEVEL:	II
REQUISITE KNOWLEDGE:	APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION RELATED TO MEANS OF EGRESS ELEMENTS, MAINTENANCE REQUIREMENTS OF EGRESS ELEMENTS , TYPES OF CONSTRUCTION, OCCUPANCY EGRESS REQUIREMENTS, AND THE RELATIONSHIP OF FIXED FIRE PROTECTION SYSTEMS TO EGRESS REQUIREMENTS AND TO APPROVED MEANS OF EGRESS ELEMENTS, INCLUDING, BUT NOT LIMITED TO, DOORS, HARDWARE, AND LIGHTS (4.3.3)
REQUISITE SKILL:	THE ABILITY TO OBSERVE AND RECOGNIZE PROBLEMS, CALCULATE, MAKE BASIC DECISIONS RELATED TO MEANS OF EGRESS, USE MEASURING TOOLS, AND MAKE FIELD SKETCHES (4.3.3)

PERFORMANCE GOAL

GIVEN:

1. A summary of the means of egress elements
2. A summary of means of egress components
3. Sample observations made during a field inspection of an existing building

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the means of egress elements, including:
 - Exit access
 - Exit
 - Exit discharge
2. Describe the means of egress components, which at a minimum **shall** include:
 - Approved means of egress components such as doors, hardware, and illumination
 - Deficiencies identified, documented, and reported
 - Maintenance
 - Occupancy egress requirements
 - Relationship of fixed fire protection systems to egress requirements

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-4: DESCRIBE BUILDING SYSTEM COMPONENTS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.4, 4.3.15, AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION, TYPES OF CONSTRUCTION, RELATED CONSTRUCTION COMPONENTS, AND ACCEPTED BUILDING CONSTRUCTION METHODS AND MATERIALS (4.3.4) BASIC FIRE BEHAVIOR; FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS OF CONTENTS, INTERIOR FINISHES, BUILDING CONSTRUCTION ELEMENTS, LIFE SAFETY SYSTEMS, DECORATIONS, DECORATIVE MATERIALS, AND FURNISHINGS; AND SAFE HOUSEKEEPING PRACTICES (4.3.15)
REQUISITE SKILL:	THE ABILITY TO READ PLANS, MAKE DECISIONS, AND APPLY CODES AND STANDARDS (4.3.4) THE ABILITY TO OBSERVE, COMMUNICATE, APPLY CODES AND STANDARDS, RECOGNIZE HAZARDOUS CONDITIONS, AND MAKE DECISIONS (4.3.15)

PERFORMANCE GOAL

GIVEN:

1. A summary of construction types
2. A summary of construction features
3. A summary of accepted building construction methods and materials
4. A summary of methods to verify and record the construction type for an addition or remodel
5. Sample field observations or a description of a project and the materials being used

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the types of construction:
 - Type I – Fire Resistive
 - Type II – Non-combustible
 - Type III - Ordinary
 - Type IV – Heavy Timber
 - Type V – Wood Frame
2. Describe construction features, which at a minimum **shall** include:
 - Attic stops
 - Draft stops
 - Enclosed stairs
 - Exterior walls
 - Fire barriers
 - Fire partitions
 - Fire-resistant joint systems
 - Fire walls



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

- Horizontal assemblies
 - Interior finishes
 - Opening protection
 - Penetration protection
 - Roof covering and assembly classifications
 - Shaft enclosures
 - Smoke barriers
 - Smoke partitions
3. Describe accepted building construction methods and materials
 4. Describe methods to verify and record the construction type for an addition or remodel

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-5: DESCRIBE AND DEMONSTRATE READING DOCUMENTS RELATED TO FIRE PROTECTION SYSTEMS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.9
LEVEL:	II
REQUISITE KNOWLEDGE:	FIRE PROTECTION SYMBOLS AND TERMINOLOGY (4.3.9)
REQUISITE SKILL:	THE ABILITY TO READ AND COMPREHEND PLANS FOR FIRE PROTECTION SYSTEMS, OBSERVE, COMMUNICATE, APPLY CODES AND STANDARDS, RECOGNIZE PROBLEMS, AND MAKE DECISIONS (4.3.9)

PERFORMANCE GOAL

GIVEN:

1. A summary of construction documents
2. A summary of plan components
3. A summary of common fire protection symbols and terminology
4. Sample approved plans and field observations of an existing fire protection system

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify types of construction documents
2. Identify components of a plan
3. Identify common fire protection symbols and terminology related to:
4. Describe and demonstrate reading and comprehending plans for fire protection systems

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-6: DESCRIBE INSPECTION OF EXISTING FIXED FIRE SUPPRESSION SYSTEMS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.5 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	A BASIC UNDERSTANDING OF THE COMPONENTS AND OPERATION OF FIXED FIRE SUPPRESSIONS SYSTEMS AND APPLICABLE CODES AND STANDARDS (4.3.5)
REQUISITE SKILL:	THE ABILITY TO OBSERVE, MAKE DECISIONS, RECOGNIZE PROBLEMS, AND READ REPORTS (4.3.5)

PERFORMANCE GOAL

GIVEN:

1. A summary of types of fixed fire protection systems and components
2. A summary of types and components of standpipes
3. A summary of types and components of stationary fire pumps
4. A summary of maintaining, testing and documenting existing fixed fire suppression systems
5. A summary of locations and processes for special agent systems
6. A summary how to verify deficiencies through inspection and documentation
7. A summary of deficiency resolution options

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify types of fixed fire protection systems and components
 - Water-based
 - Special agent
2. Identify types and components of standpipes
3. Identify types and components of stationary fire pumps
4. Describe maintenance, testing, and documentation, which at a minimum **shall** include:
 - Owner's documentation of periodic inspections
 - Third-party service tags
 - Third-party notices of deficiencies in the system
5. Identify locations and processes for special agent systems
6. Describe how deficiencies are verified through inspections and documentation, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction
7. Describe options for deficiency resolution

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-7: DESCRIBE INSPECTION OF EXISTING FIRE DETECTION AND ALARM SYSTEMS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.6 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	A BASIC UNDERSTANDING OF THE COMPONENTS AND OPERATION OF FIRE DETECTION AND ALARM SYSTEMS AND DEVICES AND APPLICABLE CODES AND STANDARDS (4.3.6)
REQUISITE SKILL:	THE ABILITY TO OBSERVE, MAKE DECISIONS, RECOGNIZE PROBLEMS, AND READ REPORTS (4.3.6)

PERFORMANCE GOAL

GIVEN:

1. A summary of the components and operation of fire detection and alarm systems
2. A summary of maintenance, testing and service documentation for fire detection and alarm systems
3. A summary of the procedures to verify all deficiencies
4. A summary of deficiency resolution options
5. Sample test documentation and field observations of fire detection and alarm systems

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the components and operation of fire detection and alarm systems, which at a minimum **shall** include:
 - Monitored on- or off-site (where required)
2. Describe maintenance, testing, and documentation, which at a minimum **shall** include:
 - Owner's documentation of periodic inspections
 - *Third-party notices of deficiencies in the system*
3. Describe how deficiencies are verified through inspections and documentation, and reported in accordance with the applicable codes, standards, and policies of the jurisdiction
4. Describe options for deficiency resolution

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-8: DESCRIBE INSPECTION OF PORTABLE FIRE EXTINGUISHERS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.7 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	A BASIC UNDERSTANDING OF PORTABLE FIRE EXTINGUISHERS, INCLUDING THEIR COMPONENTS AND PLACEMENT, AND APPLICABLE CODES AND STANDARDS (4.3.7)
REQUISITE SKILL:	THE ABILITY TO OBSERVE, MAKE DECISIONS, RECOGNIZE PROBLEMS, AND READ REPORTS (4.3.7)

PERFORMANCE GOAL

GIVEN:

1. A summary of the components and operation of portable fire extinguishers
2. *A summary agents used in portable fire extinguishers*
3. *A summary portable fire extinguisher types*
4. A summary of maintenance, testing and service documentation for portable fire extinguishers
5. *A summary of the proper use of a portable fire extinguisher*
6. A summary of the procedures to verify all deficiencies
7. A summary of deficiency resolution options
8. Sample test documentation and field observations of portable fire extinguishers

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the components and operation of portable fire extinguishers, which at a minimum **shall** include:
 - Hazard classification
 - Placement
 - Rating
2. *Identify agents used in portable fire extinguishers*
3. *Identify types of portable fire extinguishers*
4. Describe maintenance, testing and service documentation, which at a minimum **shall** include:
 - *Service intervals*
 - *Inspection tag*
 - *Service collar*
 - *Hydrostatic test identification*
5. *Describe the proper use of a portable fire extinguisher*
6. Describe how deficiencies are verified, which at a minimum **shall** include:
 - Identified and documented
 - Reported in accordance with the policies of the jurisdiction



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

7. Describe options for deficiency resolution

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-9: DESCRIBE HAZARDOUS CONDITIONS INVOLVING EQUIPMENT, PROCESSES, AND OPERATIONS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTIONS 4.3.8 AND 4.3.15
LEVEL:	II
REQUISITE KNOWLEDGE:	PRACTICES AND TECHNIQUES OF CODE COMPLIANCE INSPECTIONS, FIRE BEHAVIOR, FIRE PREVENTION PRACTICES, IGNITION SOURCES, SAFE HOUSEKEEPING PRACTICES, AND CLASSIFICATION OF HAZARDOUS MATERIALS (4.3.8) BASIC FIRE BEHAVIOR; FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS OF CONTENTS, INTERIOR FINISHES, BUILDING CONSTRUCTION ELEMENTS, LIFE SAFETY SYSTEMS, DECORATIONS, DECORATIVE MATERIALS, AND FURNISHINGS; AND SAFE HOUSEKEEPING PRACTICES (4.3.15)
REQUISITE SKILL:	THE ABILITY TO OBSERVE, COMMUNICATE, APPLY CODES AND STANDARDS, RECOGNIZE PROBLEMS, AND MAKE DECISIONS (4.3.8) THE ABILITY TO OBSERVE, COMMUNICATION, APPLY CODES AND STANDARDS, RECOGNIZE HAZARDOUS CONDITIONS, AND MAKE DECISIONS (4.3.15)

PERFORMANCE GOAL

GIVEN:

1. A summary of practices and techniques for safe operation
2. A summary of applicable codes and standards related to hazardous conditions
3. A summary of unsafe behaviors
4. A summary of unsafe conditions
5. A summary of the procedures to verify all deficiencies
6. A summary of deficiency resolution options
7. Sample field observations

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the practices and techniques of safe operations
2. Identify the applicable codes, standards, and policies of the jurisdiction to determine code compliance
3. Identify unsafe behaviors
4. Identify unsafe conditions
5. Describe how deficiencies are verified, which at a minimum **shall** include:
 - Observed and documented
 - Reported in accordance with the policies of the jurisdiction
6. Identify options for deficiency resolution, which at a minimum **shall** include:
 - Referring to appropriate level when necessary

STANDARD:



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-10: DESCRIBE EMERGENCY PLANNING AND PREPAREDNESS MEASURES

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.10
LEVEL:	II
REQUISITE KNOWLEDGE:	REQUIREMENTS RELATIVE TO EMERGENCY EVACUATION DRILLS THAT ARE REQUIRED WITHIN THE JURISDICTION, WAYS TO CONDUCT AND/OR EVALUATE FIRE DRILLS IN VARIOUS OCCUPANCIES, AND HUMAN BEHAVIOR DURING FIRES AND OTHER EMERGENCIES (4.3.10)
REQUISITE SKILL:	THE ABILITY TO IDENTIFY THE EMERGENCY EVACUATION REQUIREMENTS CONTAINED IN THE APPLICABLE CODES AND STANDARDS AND INTERPRET PLANS AND REPORTS (4.3.10)

PERFORMANCE GOAL

GIVEN:

1. A summary of the occupancies that require an evacuation plan
2. A summary of the elements of an evacuation plan
3. A summary of the frequency with which fire drills must be practiced
4. A summary of special considerations based on specific occupancies
5. A summary of the human behavior that occurs during fires and other emergencies
6. A summary of considerations to conduct and/or evaluate fire drills
7. A summary of how to conduct a fire drill
8. A summary of issues to cover in a post-drill debriefing
9. A summary of the procedures to verify all deficiencies
10. A summary of deficiency resolution options
11. Sample field observations, copies of emergency plans, and records of exercises

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify what occupancies are required to have an evacuation plan.
2. Describe the elements of an evacuation plan to include
3. Identify the frequency with which fire drills must be practiced
4. Identify special considerations based on specific occupancies
5. Identify the human behavior that occurs during fires and other emergencies
6. Define the considerations to conduct and/or evaluate fire drills
7. Describe conducting a fire drill
8. Identify issues to be covered in a post-drill debriefing
9. Describe how to verify deficiencies, which at a minimum **shall** include:
 - Observed and documented
 - Reported in accordance with the applicable codes, standards, and policies of the jurisdiction
10. Identify options for deficiency resolution, which at a minimum **shall** include:
 - Referring to appropriate level when necessary



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-11: DESCRIBE FIRE DEPARTMENT ACCESS AND WATER SUPPLY

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.11
LEVEL:	II
REQUISITE KNOWLEDGE:	APPLICABLE CODES AND STANDARDS, THE POLICIES OF THE JURISDICTION, AND EMERGENCY ACCESS AND ACCESSIBILITY REQUIREMENTS (4.3.11)
REQUISITE SKILL:	THE ABILITY TO IDENTIFY THE EMERGENCY ACCESS REQUIREMENTS CONTAINED IN THE APPLICABLE CODES AND STANDARDS, OBSERVE, MAKE DECISIONS, AND USE MEASURING TOOLS (4.3.11)

PERFORMANCE GOAL

GIVEN:

1. A summary of fire department access and water supply requirements
2. *A summary of different hydrant types*
3. A summary of access maintenance requirements for emergency responders
4. A summary of the procedures to verify all deficiencies
5. A summary of deficiency resolution options
6. Sample field observations of existing site

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify fire department access and water supply requirements
2. *Identify different hydrant types*
3. Describe access maintenance requirements for emergency responders, which at a minimum **shall** include:
 - Apparatus access as approved is maintained
 - Verify access to fire department connections
 - Verify hydrant access and maintenance
 - Verify addressing
 - Verify keys and key boxes
4. Describe how deficiencies are verified, which at a minimum **shall** include:
 - Observed and documented
 - Reported in accordance with the applicable codes, standards, and policies of the jurisdiction
5. Identify options for deficiency resolution, which at a minimum **shall** include:
 - Referring to appropriate level when necessary

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-12: DESCRIBE CODE COMPLIANCE FOR INCIDENTAL STORAGE, HANDLING, AND USE OF HAZARDOUS MATERIALS, FLAMMABLE AND COMBUSTIBLE LIQUIDS, AND GASES

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTIONS 4.2.5, 4.3.12, 4.3.13, AND 4.3.15 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	<p>APPLICABLE CODES AND STANDARDS ADOPTED BY THE JURISDICTION (4.2.5)</p> <p>CLASSIFICATION, PROPERTIES, LABELING, STORAGE, HANDLING, AND USE OF INCIDENTAL AMOUNTS OF FLAMMABLE AND COMBUSTIBLE LIQUIDS AND GASES (4.3.12)</p> <p>CLASSIFICATION, PROPERTIES, LABELING, TRANSPORTATION, STORAGE, HANDLING, AND USE OF HAZARDOUS MATERIALS (4.3.13)</p> <p>BASIC FIRE BEHAVIOR; FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS OF CONTENTS, INTERIOR FINISHES, BUILDING CONSTRUCTION ELEMENTS, LIFE SAFETY SYSTEMS, DECORATIONS, DECORATIVE MATERIALS, AND FURNISHINGS; AND SAFE HOUSEKEEPING PRACTICES (4.3.15)</p>
REQUISITE SKILL:	<p>THE ABILITY TO APPLY CODES AND STANDARDS (4.2.5)</p> <p>THE ABILITY TO OBSERVE, COMMUNICATE, APPLY CODES AND STANDARDS, RECOGNIZE PROBLEMS, AND MAKE DECISIONS (4.3.12)</p> <p>THE ABILITY TO OBSERVE, COMMUNICATE, APPLY CODES AND STANDARDS, RECOGNIZE PROBLEMS, AND MAKE DECISIONS (4.3.13)</p> <p>THE ABILITY TO OBSERVE, COMMUNICATE, APPLY CODES AND STANDARDS, RECOGNIZE HAZARDOUS CONDITIONS, AND MAKE DECISIONS (4.3.15)</p>

PERFORMANCE GOAL

GIVEN:

1. A summary of the classification and physical and chemical properties of hazardous materials, flammable and combustible liquids, and gases
2. *A summary of how to determine chemical information*
3. A summary of the requirements for incidental amounts of flammable and combustible liquids and gases
4. A summary of reporting requirements for a Certified Unified Program Agency (CUPA)
5. A summary of the procedures to verify all deficiencies
6. A summary of deficiency resolution options
7. Sample field observations and inspection guidelines from the authority having jurisdiction

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the classification and physical and chemical properties of hazardous materials, flammable and combustible liquids, and gases.
2. *Describe how to determine chemical information*
3. Describe the requirements for incidental amounts of flammable and combustible liquids and gases, which at a minimum **shall** include:
 - Applicable codes and standards

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

- ♦ Maximum allowable quantities
 - ♦ Permissible quantities
 - ♦ Labeling
 - ♦ Storage
 - ♦ Handling and use
 - Waste
4. Identify reporting requirements for a Certified Unified Program Agency (CUPA)
 5. Describe how deficiencies are verified, which at a minimum **shall** include:
 - Observed and documented
 - Reported in accordance with the applicable codes, standards, and policies of the jurisdiction
 6. Identify options for deficiency resolution, which at a minimum **shall** include:
 - Referring to appropriate level when necessary

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-13: DESCRIBE FIRE GROWTH POTENTIAL IN A BUILDING OR SPACE

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.14
LEVEL:	II
REQUISITE KNOWLEDGE:	BASIC FIRE BEHAVIOR; FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS OF CONTENTS, INTERIOR FINISHES, BUILDING CONSTRUCTION ELEMENTS, DECORATIONS, DECORATIVE MATERIALS, AND FURNISHINGS; AND SAFE HOUSEKEEPING PRACTICES (4.3.14)
REQUISITE SKILL:	THE ABILITY TO OBSERVE, COMMUNICATE, APPLY CODES AND STANDARDS, RECOGNIZE HAZARDOUS CONDITIONS, AND MAKE DECISIONS (4.3.14)

PERFORMANCE GOAL

GIVEN:

1. A summary of the fire triangle/tetrahedron
2. A summary of the stages of fire
3. A summary of energy sources
4. A summary of methods for documenting and reporting the fire growth potential of occupancies and uses in the jurisdiction in accordance with the applicable codes, standards, and policies of the jurisdiction
5. A summary of basic knowledge of fire behavior
6. A summary of aspects that impact fire growth potential
7. A summary of the procedures to verify all deficiencies
8. A summary of deficiency resolution options
9. Sample field observations of a building or space

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe fire triangle/tetrahedron
2. Describe the stages of fire
3. Identify energy sources
4. Describe methods of documenting and reporting the fire growth potential of occupancies and uses in the jurisdiction in accordance with the applicable codes, standards, and policies of the jurisdiction
5. Describe a basic knowledge of fire behavior, which at a minimum **shall** include:
 - Mechanisms of heat transfer
 - Flame spread and smoke development
 - Ignition sources
6. Describe aspects that impact fire growth potential
 - Maintenance of building construction elements (passive)
 - Maintenance requirements for active fire protection building systems
 - Interior finishes

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

- Decorations and decorative materials
 - Special furnishing requirements
 - Safe housekeeping practices
 - Storage practices
 - Commodity classifications
7. Describe how deficiencies are verified, which at a minimum **shall** include:
- Observed and documented
 - Reported in accordance with the policies of the jurisdiction
8. Identify options for deficiency resolution, which at a minimum **shall** include:
- Referring to appropriate level when necessary

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-14: DESCRIBE FIRE FLOW TESTING

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2009): SECTION 4.3.16 AND THE <i>STATE FIRE MARSHAL</i>
LEVEL:	II
REQUISITE KNOWLEDGE:	TYPES OF WATER DISTRIBUTION SYSTEMS AND OTHER WATER SOURCES IN THE LOCAL COMMUNITY, WATER DISTRIBUTION SYSTEM TESTING, CHARACTERISTICS OF PUBLIC AND PRIVATE WATER SUPPLY SYSTEMS, AND FLOW TESTING PROCEDURES (4.3.16)
REQUISITE SKILL:	THE ABILITY TO USE PITOT TUBES, GAUGES, AND OTHER DATA GATHERING DEVICES AS WELL AS CALCULATE AND GRAPH FIRE FLOW RESULTS (4.3.16)

PERFORMANCE GOAL

GIVEN:

1. A summary of water distribution systems and other water sources
2. A summary of flow testing procedures
3. A summary of required fire flows are in accordance with applicable codes and standards
4. A summary of the procedures to verify all deficiencies
5. A summary of deficiency resolution options
6. An example of fire flow test results and water supply data

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe water distribution systems and other water sources, which at a minimum **shall** include:
 - Characteristics of public and private water supply
 - Water distribution system testing
2. Describe flow testing procedures, which at a minimum **shall** include:
 - Fire flow testing equipment
 - *Flood control authority policies*
 - Water purveyor policies
3. Describe how required fire flows are determined in accordance with applicable codes and standards
4. Describe how deficiencies are verified, which at a minimum **shall** include:
 - Observed and documented
 - Reported in accordance with the applicable codes, standards, and policies of the jurisdiction
5. Identify options for deficiency resolution, which at a minimum **shall** include:
 - Referring to appropriate level when necessary

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 3: FIELD INSPECTION FOR THE FIRE INSPECTOR I

FII 3-15: DESCRIBE INSPECTING TENTS, CANOPIES, AND TEMPORARY MEMBRANE STRUCTURES

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. A definition of the terms tent, canopy and temporary membrane structure
2. A summary of state requirements for tents, canopies and other temporary membrane structures
3. A summary of California Building Code regulations for tents, canopies and temporary membrane structures

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Define "tent", "canopy", and "temporary membrane structure"
2. Identify the state requirements for tents, canopies and other temporary membrane structures
3. Identify when the California Building Code regulates a tent, canopy, or membrane structure

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 4: PYROTECHNICS AND EXPLOSIVES FOR THE FIRE INSPECTOR I

SECTION 4: FIREWORKS AND EXPLOSIVES

FII 4-1: DESCRIBE REQUIREMENTS FOR FIREWORKS AND EXPLOSIVE MATERIALS

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. A summary of laws and regulations pertaining to fireworks and explosives
2. A summary of classifications of fireworks
3. A summary of types of licenses required for fireworks
4. A summary of the State Fire Marshal seal of registration for fireworks
5. A summary of jurisdictional authority for safe and sane fireworks
6. A summary of types of operational permits
7. A summary of local permit application requirements
8. A summary of the storage, use, and handling of fireworks and explosive materials
9. A summary of seizure requirements
10. A summary of the required safety inspection of fireworks stands
11. A summary of the requirements and physical hazards related to special effects displays
12. A summary of fire and life safety aspects related to public displays
13. A summary of requirements for and physical hazards related to model rockets
14. A summary of types of explosive materials

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify laws and regulations pertaining to fireworks and explosives
2. Identify classifications of fireworks
3. Describe the types of licenses required for fireworks
4. Identify the State Fire Marshal seal of registration for fireworks
5. Describe jurisdictional authority for safe and sane fireworks
6. Identify types of operational permits
7. Describe local permit application requirements
8. Identify the storage, use, and handling of fireworks and explosive materials
9. Identify seizure requirements
10. Describe the required safety inspection of fireworks stands
11. Describe the requirements and physical hazards related to special effects displays
12. Describe fire and life safety aspects related to public displays, which at a minimum **shall** include:
 - Requirements

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 4: PYROTECHNICS AND EXPLOSIVES FOR THE FIRE INSPECTOR I

- *Firing methods*
- *Mortars and aerial shells*
- *Site location requirements*
- *Safety tools and equipment*
- *Protective equipment*
- *Post display procedures*

13. *Describe requirements for and physical hazards related to model rockets*

14. *Identify types of explosive materials*

15. *Describe fire and life safety aspects related to explosive materials, which at a minimum shall include:*

- *Licenses and permits*
- *Fire department's role in regulating explosives*
- *Hazards*
- *Classifications*
- *Storage requirements*
- *AHJ notifications requirements*
- *Small arms ammunition and primers*
- *Smokeless powder and black sporting powder*
- *Construction of a class I and class II magazine*

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 5: WILDLAND URBAN INTERFACE FOR THE FIRE INSPECTOR I

SECTION 5: WILDLAND URBAN INTERFACE

FII 5-1: DESCRIBE FIRE GROWTH POTENTIAL IN THE WILDLAND URBAN INTERFACE

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. A summary of the wildland urban interface
2. A summary of the history of fire in the wildland urban interface
3. A summary of the consequences of severe wildland fire conditions on unmitigated wildland urban interface areas
4. A summary of factors impacting wildland fire behavior
5. A summary of methods of heat transfer
6. A summary of methods of documentation and reporting fire growth potential in the wildland urban interface within the applicable codes, standards, and policies of the jurisdiction

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the wildland urban interface
2. Identify the history of fire in the wildland urban interface, including but not limited to:
 - Paint fire (Montecito)
 - Tunnel fire (Oakland)
3. Describe the consequences of severe wildland fire conditions on unmitigated wildland urban interface areas, which at a minimum **shall** include:
 - Interface conflagrations that exceed fire suppression resource capabilities
 - Life loss
 - Property loss
 - Environmental impact
 - Economic impact
4. Identify factors impacting wildland fire behavior, which at a minimum **shall** include:
 - Fuel
 - Topography
 - Weather
5. Identify methods of heat transfer, which at a minimum shall include:
 - Direct flame contact
 - Convection
 - Radiation
 - Ember transfer



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 5: WILDLAND URBAN INTERFACE FOR THE FIRE INSPECTOR I

- *Structure to structure*
 - *Fuel and fire laddering*
 - *Crown fire migration*
6. *Describe methods of documentation and reporting fire growth potential in the wildland urban interface within the applicable codes, standards, and policies of the jurisdiction*

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 5: WILDLAND URBAN INTERFACE FOR THE FIRE INSPECTOR I

FII 5-2: DESCRIBE THREAT CONDITIONS IN THE WILDLAND URBAN INTERFACE

AUTHORITY:	STATE FIRE MARSHAL
LEVEL:	II

PERFORMANCE GOAL

GIVEN:

1. A summary of the development process of fire hazard severity zones
2. A summary of fire hazard severity zone classifications
3. A summary of areas of responsibility
4. A summary of construction requirements related to zone classification
5. A summary of methods for dealing with fire hazards associated with wildland urban interface environments
6. A summary of the components of a vegetation management plan
7. A summary of documentation and reporting methods in a wildland urban interface environment
8. A summary of how deficiencies are verified

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Describe the development process of fire hazard severity zones
2. Define fire hazard severity zone classifications, which at a minimum **shall** include:
 - Moderate
 - High
 - Very high
3. Identify areas of responsibility, which at a minimum **shall** include:
 - Local Responsibility Area (LRA)
 - State Responsibility Area (SRA)
 - Federal lands
4. Describe construction requirements depending on zone classification, which as a minimum **shall** include:
 - Special construction features
 - Vegetation management requirements
5. Describe methods for dealing with fire hazards associated with wildland urban interface environments
6. Describe the components of a vegetation management plan, which at a minimum **shall** include:
 - Defensible space
 - Fuel modification



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 5: WILDLAND URBAN INTERFACE FOR THE FIRE INSPECTOR I

- *Fuel reduction*
- *Wildland urban interface maintenance*

7.

8. *Describe documentation and reporting methods in a wildland urban interface environment*

9. *Describe how deficiencies are verified, which at a minimum **shall** include:*

- *Observation and documentation*
- *Reporting in accordance with the applicable codes, standards, and policies of the jurisdiction*
- *Resolving or referring to the appropriate agency*

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 11: INVESTIGATION FOR THE FIRE MARSHAL

SECTION 6: HAZARDOUS MATERIALS (NOT ADDRESSED AS PART OF THIS WORKGROUP)

FII 6-1: DESCRIBE DETECTING THE PRESENCE OF HAZARDOUS MATERIALS AND WEAPONS OF MASS DESTRUCTION (WMD)

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2003): SECTIONS 4.1 STATE FIRE MARSHAL BASED ON NFPA 472: COMPETENCE OF RESPONDERS TO HAZARDOUS MATERIALS/WEAPONS OF MASS DESTRUCTION INCIDENTS (2008): SECTION 4.2.2
LEVEL:	II
REQUISITE KNOWLEDGE:	
REQUISITE SKILL:	

PERFORMANCE GOAL

GIVEN:

1. A summary of the definitions of both hazardous material and WMD
2. A summary of the UN/DOT hazard classes and divisions of hazardous materials/WMD
3. A summary of common examples of materials in each hazard class or division
4. A summary of the primary hazards associated with each UN/DOT hazard class and division
5. A summary of the difference between hazardous materials/WMD incidents and other emergencies
6. A summary of typical occupancies and locations in the community where hazardous materials/WMD are manufactured, transported, stored, used, or disposed of
7. A summary of typical container shapes that can indicate the presence of hazardous materials/WMD
8. A summary of facility and transportation markings and colors that indicate hazardous materials/WMD
9. A summary of the significance of the colors, numbers, and special symbols of the NFPA 704 markings
10. A summary of U.S. and Canadian placards and labels that indicate hazardous materials/WMD
11. A summary of basic information on material safety data sheets (MSDS) and shipping papers for hazardous materials
12. A summary of clues which indicate hazardous materials/WMD
13. A summary of the limitations of using the senses in determining the presence or absence of hazardous materials/WMD
14. A summary of locations that could be targets for criminal or terrorist activity using hazardous materials/WMD
15. A summary of the difference between a chemical and a biological incident

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 11: INVESTIGATION FOR THE FIRE MARSHAL

16. A summary of indicators of possible criminal or terrorist activity involving chemical agents
17. A summary of indicators of possible criminal or terrorist activity involving biological agents, radiological agents, illicit laboratories, and explosives
18. A summary of indicators of secondary devices
19. Examples of NFPA 704 markings
20. Examples of various situations

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify the definitions of both hazardous material and WMD
2. Identify those situations where hazardous materials/WMD are present
3. Identify the UN/DOT hazard classes and divisions of hazardous materials/WMD
4. Identify common examples of materials in each hazard class or division
5. Identify the primary hazards associated with each UN/DOT hazard class and division
6. Identify the difference between hazardous materials/WMD incidents and other emergencies
7. Identify typical occupancies and locations in the community where hazardous materials/WMD are manufactured, transported, stored, used, or disposed of
8. Identify typical container shapes that can indicate the presence of hazardous materials/WMD
9. Identify facility and transportation markings and colors that indicate hazardous materials/WMD, which at a minimum **shall** include:
 - Container markings
 - Military hazardous materials/WMD markings
 - NFPA 704, Standard System for the Identification of the Hazards of Materials for Emergency Response markings
 - Pipeline markings
 - Special hazard communication markings for each hazard class
 - Transportation markings
 - Commodity marking
 - Elevated temperature (HOT) mark
 - Inhalation hazard mark
 - Marine pollutant mark
 - UN/NA identification number marks
10. Describe the significance of the colors, numbers, and special symbols of the NFPA 704 markings
11. Identify U.S. and Canadian placards and labels that indicate hazardous materials/WMD
12. Identify basic information on material safety data sheets (MSDS) and shipping papers for hazardous materials, which at a minimum **shall** include:
 - Entries on shipping papers that indicate the presence of hazardous materials

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 11: INVESTIGATION FOR THE FIRE MARSHAL

- Identifying the person responsible for having the shipping papers in each mode of transportation
 - Identifying where the papers can be found in an emergency in each mode of transportation
 - Identifying where the shipping papers are found in each mode of transportation
 - Major sections of an MSDS
 - Matching the name of the shipping papers found in transportation (air, highway, rail, and water) with the mode of transportation
 - Where to find MSDS
13. Identify clues which indicate hazardous materials/WMD (other than occupancy/ location, container shape, markings/color, placards/ labels, MSDS, and shipping papers), which at a minimum **shall** include:
- Odor
 - Sight
 - Sound
14. Describe the limitations of using the senses in determining the presence or absence of hazardous materials/WMD
15. Identify at least four types of locations that could be targets for criminal or terrorist activity using hazardous materials/WMD
16. Describe the difference between a chemical and a biological incident
17. Identify at least four indicators of possible criminal or terrorist activity involving chemical agents
18. Identify at least four indicators of possible criminal or terrorist activity involving biological agents
19. Identify at least four indicators of possible criminal or terrorist activity involving radiological agents
20. Identify at least four indicators of possible criminal or terrorist activity involving illicit laboratories (clandestine laboratories, weapons lab, ricin lab)
21. Identify at least four indicators of possible criminal or terrorist activity involving explosives
22. Identify at least four indicators of secondary devices

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy



RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 11: INVESTIGATION FOR THE FIRE MARSHAL

FII 6-2: IDENTIFY SURVEYING HAZARDOUS MATERIALS/WMD INCIDENTS

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2003): SECTIONS 4.1 STATE FIRE MARSHAL BASED ON NFPA 472: COMPETENCE OF RESPONDERS TO HAZARDOUS MATERIALS/WEAPONS OF MASS DESTRUCTION INCIDENTS (2008): SECTION 4.2.2
LEVEL:	I
REQUISITE KNOWLEDGE:	
REQUISITE SKILL:	

PERFORMANCE GOAL

GIVEN:

1. A summary of difficulties encountered in determining the specific names of hazardous materials/WMD at facilities and in transportation
2. A summary of sources for obtaining the names of, UN/NA identification numbers for, or types of placard associated with hazardous materials/WMD in transportation
3. A summary of sources for obtaining the names of hazardous materials/WMD at a facility
4. Examples of hazardous materials/WMD incidents

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify difficulties encountered in determining the specific names of hazardous materials/WMD at facilities and in transportation
2. Identify sources for obtaining the names of, UN/NA identification numbers for, or types of placard associated with hazardous materials/WMD in transportation
3. Identify sources for obtaining the names of hazardous materials/WMD at a facility
4. Identify the hazardous material(s)/WMD involved in a given situation by name, UN/NA identification number, or type placard applied

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy

RE MARSHAL CERTIFICATION TRAINING STANDARDS

SECTION 11: INVESTIGATION FOR THE FIRE MARSHAL

FII 6-3: IDENTIFY COLLECTING HAZARD INFORMATION

AUTHORITY:	NFPA 1031 PROFESSIONAL QUALIFICATIONS FOR FIRE INSPECTOR AND PLAN EXAMINER (2003): SECTIONS 4.1 STATE FIRE MARSHAL BASED ON NFPA 472: COMPETENCE OF RESPONDERS TO HAZARDOUS MATERIALS/WEAPONS OF MASS DESTRUCTION INCIDENTS (2008): SECTION 4.2.3
LEVEL:	I
REQUISITE KNOWLEDGE:	
REQUISITE SKILL:	

PERFORMANCE GOAL

GIVEN:

1. A summary of the fire, explosion, and health hazard information for a given hazardous material from the current edition of the DOT Emergency Response Guidebook
2. A summary of the three methods for determining the guidebook page for a hazardous material/WMD
3. A summary of the two general types of hazards found on each guidebook page

PERFORMANCE: (IN ACCORDANCE WITH DEPARTMENT POLICIES AND STANDARD OPERATING PROCEDURES)

1. Identify the fire, explosion, and health hazard information for a given hazardous material by using the current edition of the DOT Emergency Response Guidebook
2. Identify the three methods for determining the guidebook page for a hazardous material/WMD
3. Identify the two general types of hazards found on each guidebook page

STANDARD:

By successfully completing all assignments and activities, passing all performance tests, and passing all written tests with a minimum of 80% accuracy